



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor  
Toni Hardesty, Director

October 1, 2004

**Certified Mail No. 7000 1670 0013 8128 4170**

Colonel Charles K. Shugg  
Commander  
Mountain Home AFB  
366 Gunfighter Avenue, Suite 331  
Mountain Home AFB, ID 83649-5299

RE: Facility ID No. 039-00001, Mountain Home AFB, Mountain Home  
Tier I Operating Permit Administrative Amendment Number T1-040024

Dear Colonel Shugg:

The Department of Environmental Quality (DEQ) is issuing amended Tier I Operating Permit No. T1-040024 to Mountain Home AFB in accordance with IDAPA 58.01.01.381, *Rules for the Control of Air Pollution in Idaho*. The permit has been administratively amended by DEQ as requested in your letter received August 4, 2004, and is effective immediately.

The following permit conditions have been administratively amended. All other permit conditions remain unchanged.

- The responsible official was changed to Colonel Charles Shugg;
- The facility contact was changed to Mr. Ken Donley.
- Permit Conditions 10.21.c.ii and iii, *Permit Compliance Certification*, were changed to be consistent with the rules for annual compliance certification as specified in the February 5, 2004 revision to IDAPA 58.01.01.322.11.
- Permit Condition 10.21.a was changed to more accurately reflect the annual compliance certification reporting period. In particular, the reporting period was established as November 1 to October 31.
- Permit Condition 10.24 was changed to more accurately reflect reporting periods for semiannual monitoring reports. In particular, the reporting periods were established as November 1 to April 30 and May 1 to October 31.

Please be aware of the following permit replacement:

- Tier I Operating Permit No. T1-040024 replaces Tier I Operating Permit No. T1-030039, dated April 9, 2003, the terms and conditions of which shall no longer be in effect.

Mountain Home AFB  
Tier I Administrative Amendment, October 1, 2004  
Page 2

If you have questions regarding the amendment procedure or this notification, please contact Bill Rogers, Regional Permit Coordinator at (208) 373-0500 or [wrogers@deq.state.id.us](mailto:wrogers@deq.state.id.us).

Sincerely,



Martin Bauer, Administrator  
Air Quality Division

MB/BR/CM/sd                      Permit No. T1-040024

Enclosure

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c:        Charlie Mazzone, Permit Writer  
         June Ramsdell, Boise Regional Office  
         Bill Rogers, Permit Coordinator  
         Laurie Kral, US EPA Region 10  
         Sherry Davis, Air Quality Division  
         Marilyn Seymore, Pat Rayne, AFS  
         Permit Binder  
         Phyllis Heitman, (Ltr Only)  
         Reading File, Ltr Only)



**Air Quality**  
**TIER I OPERATING PERMIT**  
  
**State of Idaho**  
**Department of Environmental Quality**

**PERMIT No.:** T1-040024  
**FACILITY ID No.:** 039-00001  
**AQCR:** 063    **CLASS:** A  
**SIC:** 9711    **ZONE:** 11  
**UTM COORDINATE (km):** 592.5 , 4667.0

**1. PERMITTEE**

Mountain Home Air Force Base

**2. PROJECT**

Tier I Operating Permit (Administrative Permit Amendment, Change in Responsible Official)

**3. MAILING ADDRESS**

366 Gunfighter Ave., Suite 331

**CITY**

Mountain Home Air Force Base

**STATE**

ID

**ZIP**

83648-5442

**4. FACILITY CONTACT**

Ken Donley

**TITLE**

Air Quality Manager

**TELEPHONE**

(208) 828-3724

**5. RESPONSIBLE OFFICIAL**

Charles Shugg

**TITLE**

Colonel, USAF

**TELEPHONE**

(208) 828-3724

**6. EXACT PLANT LOCATION**

Nine miles southwest of Mountain Home, Idaho

**COUNTY**

Elmore

**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**

National defense

**8. PERMIT AUTHORITY**

This Tier I operating permit is issued pursuant to Idaho Code §39-115 and the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.300 through 386. The permittee shall comply with the terms and conditions of this permit.

This permit incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality for the permitted source, unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210, and the permittee elects not to incorporate those terms and conditions into this operating permit.

The effective date of this permit is the date of signature by DEQ on the cover page. Please be aware this permit replaces Tier I Operating Permit No. T1-030039, dated April 9, 2003, the terms and conditions of which shall no longer be in effect.

  
\_\_\_\_\_  
**TONI HARDESTY, ADMINISTRATOR,**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**DATE ISSUED:** October 1, 2004

**DATE EXPIRES:** October 29, 2006

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## Acronyms, Units, and Chemical Nomenclature

AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
CAA	Clean Air Act
CAS	Chemical Abstract Service
CFR	Code of Federal Regulations
CO	carbon monoxide
Cr <sup>+6</sup>	hexavalent chromium
DEQ	Department of Environmental Quality
EPA	U.S. Environmental Protection Agency
gal/day	gallons per day
gr/dscf	grains per dry standard cubic foot
HDI	hexamethylene diisocyanate
hr/yr	hours per year
HVLP	high-volume, low-pressure
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/gal	pounds per gallon
LPB-1330	large paint booth - Hanger 1330
MSDS	material safety data sheets
MMBtu/hr	million British thermal units per hour
MHAFB	Mountain Home Air Force Base
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	oxides of nitrogen
O&M	operations and maintenance
O <sub>2</sub>	oxygen
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
PW	process weight
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO <sub>2</sub>	sulfur dioxide
SPB-1330	small paint booth - Hanger 1330
T/yr	tons per year
U.S.C.	United States Code
UTM	Universal Transverse Mercator
VOC	volatile organic compound
wt%	percent by weight

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<b>Location:</b>	Mountain Home, ID		<b>Date Expires</b>	October 29, 2006

## 1. FACILITY-WIDE CONDITIONS

Table 1.1 contains a summary of requirements that apply generally to emissions units at the facility.

**Table 1.1 FACILITY-WIDE APPLICABLE REQUIREMENTS SUMMARY**

<b>Permit Conditions</b>	<b>Parameter</b>	<b>Permit Limit/ Standard Summary</b>	<b>Applicable Requirements Reference</b>	<b>Monitoring and Recordkeeping Requirements</b>
1.1	Fugitive emissions	Reasonable control	IDAPA 58.01.01.650-651	1.2, 1.3, 1.4, 1.11
1.5	Odors	Reasonable control	IDAPA 58.01.01.775-776	1.6, 1.11
1.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	1.8, 1.11
1.9	Excess emissions	Notification and mitigation	IDAPA 58.01.01.130-136	1.9-1.9.5, 1.11
1.12	Open burning	Compliance with IDAPA 58.01.01.600-616	IDAPA 58.01.01.600-616	1.11
1.13	Asbestos NESHAP	Compliance with applicable portions of 40 CFR 61, Subpart M	40 CFR 61, 140-147	1.11
1.14	Chemical accident prevention	Compliance with 40 CFR 68 when applicable	40 CFR 68	1.11
1.15	Air quality standards	Test methods	IDAPA 58.01.01.157	1.11, 1.18
1.16	Fuel-burning equipment	Natural gas: 0.015 gr/dscf at 3% oxygen Liquid: 0.05 gr/dscf at 3% oxygen	IDAPA 58.01.01.676-677	1.11
1.17	Fuel sulfur content	ASTM Grade 1 fuel oil – 0.3% by weight ASTM Grade 2 fuel oil – 0.5% by weight	IDAPA 58.01.01.728	1.11
1.18	Criteria air pollutants, opacity	Compliance testing	IDAPA 58.01.01.157	1.11, 1.15
1.19	Recycling and emissions reduction	Compliance with 40 CFR 82 when applicable	40 CFR 82, Subpart F	1.11
1.20	National Emission Standard for Aerospace Manufacturing and Rework Facilities	Compliance with 40 CFR 63, Subpart GG when applicable	40 CFR 63.2, and 40 CFR 63, Subpart GG	1.11

### ***Fugitive Emissions***

- 1.1 All reasonable precautions shall be taken to prevent particulate matter from becoming airborne in accordance with IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 5/1/94]

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- 1.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.  
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 1.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date each complaint was received, and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.  
[IDAPA 58.01.01.322.06, 07, 5/1/94]
- 1.4 The permittee shall conduct a quarterly facility-wide inspection of potential sources of fugitive emissions, during daylight hours and under normal operating conditions, to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each fugitive emission inspection. The records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.  
[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

**Odors**

- 1.5 No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.  
[IDAPA 58.01.01.775-776, 5/1/94]
- 1.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.  
[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

**Visible Emissions**

- 1.7 No person shall discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas are the only reason(s) for the failure of the emission to comply with the requirements of this section.  
[IDAPA 58.01.01.625, 5/1/94]
- 1.8 In addition to the specific requirements in Permit Conditions 2.8 and 3.7, the permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions. If any visible emissions are present from any point of emission, the permittee shall take appropriate corrective action as expeditiously as practicable. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance

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certification and in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emission inspection. These records shall include, at a minimum, the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed); any corrective action taken in response to the visible emissions, and the date any corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

**Excess Emissions**

1.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between Permit Condition 1.9 and the regulations of IDAPA 58.01.01.130-136.

1.9.1 The person responsible for or in charge of a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate and reasonable action to correct the conditions causing such excess emissions event, to reduce the frequency of occurrence of such events, to minimize the amount by which the emission standard is exceeded, and shall, as provided below or upon request of DEQ, submit a full report of such occurrence including a statement of all known causes and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

1.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emission unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to the following:

[IDAPA 58.01.01.133, 4/5/00]

- A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory and/or a Wood Stove Curtailment Advisory have/has been declared by DEQ.

[IDAPA 58.01.01.133.01.a, 3/20/97]

- Notifying DEQ of the excess emissions event as soon as reasonably possible, but no later than two hours prior to the start of the excess emissions event, unless the owner or operator demonstrates to DEQ's satisfaction that a shorter advanced notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

- The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Conditions 1.9.4 and 1.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]



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- 1.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/5/00]

- 1.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:

[IDAPA 58.01.01.134.02, 4/5/00]

- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.

[IDAPA 58.01.01.134.02.a, 4/5/00]

- The owner or operator shall notify DEQ of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the owner or operator demonstrates to DEQ's satisfaction that the longer reporting period was necessary.

[IDAPA 58.01.01.134.02.b, 4/5/00]

- The owner or operator shall report and record the information required pursuant to Permit Conditions 1.9.4 and 1.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.

[IDAPA 58.01.01.134.02.c, 3/20/97]

- 1.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, DEQ may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the excess emissions until such time as the condition causing the excess emissions has been corrected or brought under control. Such action by DEQ shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.

[IDAPA 58.01.01.134.03 4/5/00]

- 1.9.4 A written report for each excess emissions event shall be submitted to DEQ by the owner or operator no later than 15 days after the beginning of such an event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.

[IDAPA 58.01.01.135.01, 3/20/97; IDAPA 58.01.01.135.02, 4/5/00]

- 1.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. The excess emissions records shall be made available to DEQ upon request. The excess emissions records shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:

[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]

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- An excess emissions record book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to DEQ pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment.

[IDAPA 58.01.01.136.03.a, 4/5/00]

- Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, and safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

[IDAPA 58.01.01.136.03.b, 3/20/97; IDAPA 58.01.01.130-136, 4/5/00]

(State-only; federally enforceable upon approval into the SIP); IDAPA 58.01.01.322.08.b, 3/23/98]

**Reports and Certifications**

- 1.10 All periodic reports and certifications required by this permit shall be submitted to DEQ within 60 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to the following:

Air Quality Permit Compliance  
Department of Environmental Quality  
Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706-2239

The periodic compliance certification required by General Provision 21 shall also be submitted within 60 days of the end of the specified reporting period to the following:

EPA Region 10  
Air Operating Permits, OAQ-107  
1200 Sixth Ave.  
Seattle, WA 98101

[IDAPA 58.01.01.322.08, 11, 5/1/94]

**Monitoring and Recordkeeping**

- 1.11 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

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**Open Burning**

- 1.12 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, *Rules for Control of Open Burning*.

[IDAPA 58.01.01.600-616, 5/1/94]

**Renovation/Demolition**

- 1.13 The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M, when conducting any renovation or demolition activities at the facility.

[40 CFR 61, Subpart M]

**Regulated Substances for Accidental Release Prevention**

- 1.14 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]

**Test Methods**

- 1.15 If emissions testing is required, the permittee shall use the test methods listed in Table 1.2 to measure the pollutant emissions.

**Table 1.2 EPA REFERENCE TEST METHODS**

Pollutant	Test Method*	Special Conditions
PM <sub>10</sub>	EPA Method 201.a EPA Method 202	
PM	EPA Method 5	
NO <sub>x</sub>	EPA Method 7	
SO <sub>2</sub>	EPA Method 6	
CO	EPA Method 10	
VOC	EPA Method 25	
Opacity	EPA Method 9	If an NSPS source, IDAPA 58.01.01.625 and Method 9; otherwise, IDAPA 58.01.01.625 only.

\*Or a DEQ-approved alternative in accordance with IDAPA 58.01.01.157

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**Fuel-burning Equipment**

- 1.16 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for natural gas, and 0.05 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid fuel.

[IDAPA 58.01.01.676-677, 5/1/94]

**Sulfur Content**

- 1.17 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade 1 fuel oil - 0.3% by weight
- ASTM Grade 2 fuel oil - 0.5% by weight

[IDAPA 58.01.01.728, 5/1/94]

**Compliance Testing**

- 1.18 If testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any compliance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of test method to be used
- Any extenuating or unusual circumstances regarding the proposed test
- The proposed schedule for conducting and reporting the test

Within 30 days following the date in which a compliance test required by this permit is concluded, the permittee shall submit to DEQ a report for the respective test. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following:

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Air Quality Permit Compliance  
Department of Environmental Quality  
Boise Regional Office  
1445 N. Orchard  
Boise, ID 83706-2239

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

***Recycling and Emissions Reductions***

- 1.19 The permittee shall comply with applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, *Recycling and Emissions Reduction*.

[40 CFR 82, Subpart F]

***National Emissions Standard for Aerospace Manufacturing and Rework Facilities***

- 1.20 The permittee shall submit an emission inventory of all hazardous air pollutants emitted by all affected stationary sources, as defined by 40 CFR 63.741.c, that are located in the contiguous area under the permittee's common control. This emissions inventory shall be submitted in accordance with Permit Condition 1.10, and shall be used to determine the permittee's applicability status regarding 40 CFR 63 Subpart GG.

[40 CFR 63.2; 40 CFR 63, Subpart GG]

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**2. EMISSIONS UNIT GROUP 1: HOSPITAL BOILERS****Summary Description**

The following is a narrative description of the hospital boilers regulated in this Tier I operating permit. This description is for informational purposes only.

Mountain Home Air Force Base operates three dual-fuel-fired boilers for heating and other needs at the base hospital. Each boiler is rated at 3.18 MMBtu/hr, and can combust natural gas or distillate fuel. The PTC issued to MHAFB for the boilers limit the amount of time the boilers can combust distillate fuel. No operating limit applies when the boilers combust natural gas.

Table 2.1 lists the device(s) used to control emissions from the hospital boilers.

**Table 2.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

Emissions Units	Emissions Control Device
Boilers Nos. 1-3	None

Table 2.2 contains a summary of the requirements that apply to the hospital boilers. Specific permit requirements are listed below Table 2.2.

**Table 2.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
2.1	SO <sub>2</sub>	2.1 T/yr	PTC No. 039-00001	2.4, 2.5, 2.6, 2.7
2.2	PM	Distillate fuel – 0.05 gr/dscf at 3% O <sub>2</sub> Natural gas – 0.015 gr/dscf at 3% O <sub>2</sub>	IDAPA 58.01.01.676	2.8
2.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	2.8

**Emission Limits**

- 2.1 Emissions of SO<sub>2</sub> from the common hospital boiler stack shall not exceed 2.1 tons per any consecutive 12-month period.

[PTC No. 039-00001, 5/30/02]

- 2.2 Particulate emissions from the common boiler stack shall not exceed 0.05 gr/dscf corrected to 3% oxygen by volume using distillate fuel, and 0.015 gr/dscf corrected to 3% oxygen by volume using natural gas.

[IDAPA 58.01.01.676, 5/1/94]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

<b>Permittee:</b>	Mountain Home Air Force	<b>Facility ID No.</b> 039-00001	<b>Date Issued:</b>	October 1, 2004
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- 2.3 Visible emissions from the common boiler stack shall not exceed 20% for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625. [IDAPA 58.01.01.625, 4/5/00]

***Operating Requirements***

- 2.4 The permittee shall not operate any hospital boiler for more than 500 hours per any consecutive 12-month period (hr/yr) when fueled by distillate fuel. [PTC No. 039-00001, 5/30/02]
- 2.5 The permittee shall not combust any distillate fuel in the hospital boilers having a sulfur content in excess of the following:
- ASTM Grade 1 fuel oil – 0.3% by weight
  - ASTM Grade 2 fuel oil – 0.5% by weight
- [PTC No. 039-00001, 5/30/02]

***Monitoring & Recordkeeping Requirements***

- 2.6 The permittee shall monitor and record the number of hours each boiler combusts distillate fuel on monthly and annual basis. A compilation of the most recent five years of data shall be kept onsite and shall be made available to DEQ representatives upon request. [PTC No. 039-00001, 5/30/02]
- 2.7 The distillate fuel sulfur content, measured as percent by weight, shall be monitored by the permittee, or certified by the supplier, each time distillate fuel is introduced into the No. 1 or No. 2 distillate fuel storage. This information shall be recorded and kept at the facility for the most recent five-year period and shall be made available to DEQ representatives upon request. [PTC No. 039-00001, 5/30/02]
- 2.8 The permittee shall conduct a visible emissions observation on the boiler stack quarterly, during daylight hours, while oil is being combusted. The length of each observation shall be no less than 10 minutes. If any visible emissions are present at the time of the observation, the permittee shall conduct a visible emissions observation in accordance with IDAPA 58.01.01.625. During this observation, a minimum of thirty 15-second observations shall be recorded while the process is in operation. If opacity is greater than 20%, as determined in accordance with IDAPA 58.01.01.625, the permittee shall take all necessary corrective action and report excess emissions in accordance with Permit Condition 1.9. The permittee shall record the results of each visible emission observation, and corrective action taken, if any, and maintain the records in accordance with Permit Condition 1.11. [IDAPA 58.01.01.322, 5/1/94]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

<b>Permittee:</b>	Mountain Home Air Force	<b>Facility ID No.</b> 039-00001	<b>Date Issued:</b>	October 1, 2004
<b>Location:</b>	Mountain Home, ID		<b>Date Expires</b>	October 29, 2006

**3. EMISSIONS UNIT GROUP 2: JET ENGINE TESTING****Summary Description**

The following is a narrative description of the jet engine testing operations regulated in this Tier I operating permit. This description is for informational purposes only.

Mountain Home Air Force Base tests aircraft engines as required by operational conditions. The engines are tested in either one of two "hush-houses", which were constructed to minimize the noise from engine test operations. The stack has numerous baffles to dissipate the sound energy. Engines are removed from aircraft and transported to one of the hush houses, affixed to a test stand, and then adjusted and/or repaired. Upon completion of the adjustments and repairs, the engine is test fired at idle, approach, intermediate, military and/or afterburner power settings for a short time period. Each criteria pollutant has an individual emissions rate when operated at each power setting.

Table 3.1 lists the device(s) used to control jet engine testing emissions.

**Table 3.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

Emissions Units	Emissions Control Device
Hush House No. 1	None
Hush House No. 2	None

Table 3.2 contains a summary of the requirements that apply to both hush houses. Specific permit requirements are listed below Table 3.2.

**Table 3.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
3.1	PM, PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , and VOC	Ton per year limits	PTC No. 039-00001	3.3, 3.4, 3.5, 3.6
3.2	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. 039-00001, IDAPA 58.01.01.625	3.7

**Emissions Limits**

- 3.1 Particulate matter, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions from the Hush House I and II augmentor tubes shall not exceed any corresponding emissions rate limit listed in Table 3.1 below.



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**Table 3.1 ANNUAL HUSH HOUSE EMISSION RATE LIMITS\***

Source Description	PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr
Hush Houses I and II combined	4.0	4.0	1.5	85	13	63

\*As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour rate by the hours per year that the allowable process(es) may operate, or by actual annual production rates.

[PTC No. 039-00001, 5/30/02]

- 3.2 Visible emissions from the augmentor tube, or any other stack, vent, or equivalent opening shall not exceed 20% for a period or periods aggregating more than three minutes in any 60-minute period as required in IDAPA 58.01.01.625. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625.

[IDAPA 58.01.01.625, 4/5/00]

**Operating Requirements**

- 3.3 Stationary engines tested in Hush House I and II must be Model No. F100-220 or Model No. F100-229 only.

[PTC No. 039-00001, 5/30/02]

- 3.4 The permittee shall not operate the stationary engines for more than 690 hours per any consecutive 12-month period.

- Testing of stationary engines in the military power setting is limited to 103.5 hours per any consecutive 12-month period.
- Testing of stationary engines in the afterburner power setting is limited to 75.9 hours per any consecutive 12-month period.

[PTC No. 039-00001, 9/30/99]

- 3.5 All stationary engines must be tested inside a hush house.

[PTC No. 039-00001, 9/30/99]

**Monitoring & Recordkeeping Requirements**

- 3.6 Each month the permittee shall monitor and record the operating hours and power settings of stationary jet engines for the previous 12-month period. A compilation of the most recent five years of monitoring records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]

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- 3.7 The permittee shall conduct a visible emissions observation on each augmentor tube quarterly, during daylight hours, when in operation under normal operating conditions. The length of each observation shall be no less than 10 minutes. If any visible emissions are present at the time of the observation, the permittee shall conduct a visible emissions observation in accordance with IDAPA 58.01.01.625. During this observation, a minimum of thirty 15-second observations shall be recorded while the process is in operation. If opacity is greater than 20% as determined in accordance with IDAPA 58.01.01.625, the permittee shall take all necessary corrective action and report excess emissions in accordance with Permit Condition 1.9. The permittee shall record the results of each visible emissions observation, and corrective action taken, if any, and maintain the records in accordance with Permit Condition 1.11.

[IDAPA 58.01.01.322, 5/1/94]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

<b>Permittee:</b>	Mountain Home Air Force	<b>Facility ID No.</b> 039-00001	<b>Date Issued:</b>	October 1, 2004
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**4. EMISSIONS UNIT GROUP 3: AIRCRAFT AND AIRCRAFT PARTS SURFACE COATING SPRAY BOOTHS****Summary Description**

The following is a narrative description of the corrosion control units regulated in this Tier I operating permit. This description is for informational purposes only.

The corrosion control treating process consists of surface preparation and painting aircraft and aircraft parts in one of two paint booths. Aircraft and some parts are treated in the large paint booth (LPB-1330), and parts are painted in the small paint booth (SPB-1330). The items to be treated are first cleaned with solvents, then painted using HVLP paint spray guns. The painting equipment is cleaned using solvents after use. Both paint booths exhaust through particulate filters that have a manufacturer-rated efficiency of 97%. The large paint booth also exhausts through a carbon adsorption filter, which has a manufacturer-rated efficiency of 90% for VOC emissions. Permit to Construct No. 039-00001, dated May 30, 2002, limits the amount of paint and solvent used on a 24-hour and annual basis. Also, the amount of paint used containing HDI is limited daily.

Table 4.1 lists the device(s) used to control spray paint coating emissions.

**Table 4.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

Emissions Units	Emissions Control Device
LPB 1330	PM filters, carbon adsorption filter
SPB 1330	PM filters

Table 4.2 contains a summary of the requirements that apply to the two paint booths. Specific permit requirements are listed below Table 4.2.

**Table 4.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
4.1	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	1.11
4.2	PM	Process weight	IDAPA 58.01.01.701	1.11

**Emission Limits**

- 4.1 Visible emissions from the LPB-1330 stacks, SPB-1330 stack, or any other point of emissions associated with the paint booths at Hangar 1330, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625.
- [IDAPA 58.01.01.625, 4/5/00]**

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

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4.2 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

a. If PW is less than 9,250 lb/hr,

$$E=0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 9,250 lb/hr,

$$E=1.10(PW)^{0.25}$$

[IDAPA 58.01.01.322, 5/1/94, IDAPA 58.01.01.701, 4/5/00]

**Operating Requirements**

4.3 The maximum throughput of all coatings and solvents in the LPB-1330 shall not exceed 684 gal/day or 1,250 gallons per any consecutive 12-month period.

[PTC No. 039-00001, 5/30/02]

4.4 The maximum throughput of coatings and solvents in SPB-1330 shall not exceed 140 gal/day or 350 gallons per any consecutive 12-month period.

[PTC No. 039-00001, 5/30/02]

4.5 The maximum daily throughput of materials containing not more than 1% by weight HDI (CAS No. 82-06-0) shall be limited to the quantities listed in the following tables. The maximum daily throughput of materials containing in excess of 1% by weight HDI shall be determined on a case-by-case basis.

**Aircraft and Aircraft Parts Surface Coating Spray Booths**  
**No More than 1% HDI Containing Material Throughput Limitations**

**Table 4.3 LPB-1330 THROUGHPUT LIMITS**

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	$\rho$ (lb/gal)	$\rho$ (lb/gal)	Q (gal/day)
1.0%	< 8.0	8.0	431
1.0%	8.0	10.0	345
1.0%	10.0	12.0	288
1.0%	12.0	14.0	246
1.0%	14.0	16.0	216

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**Table 4.4 SPB-1330 THROUGHPUT LIMITS**

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	$\rho$ (lb/gal)	$\rho$ (lb/gal)	Q (gal/day)
1.0%	<8.0	8.0	32
1.0%	8.0	10.0	25
1.0%	10.0	12.0	21
1.0%	12.0	14.0	18
1.0%	14.0	16.0	16

[PTC No. 039-00001(state-only), 5/30/02]

- 4.6 The permittee shall only use materials in painting booth LPB-1330 and painting booth SPB-1330 that are included in the material inventory list required by Permit Condition 4.11.  
[PTC No. 039-00001, 5/30/02]
- 4.7 The permittee shall conduct inspections of the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system on days the paint booths are in operation. The filtration systems shall be maintained in accordance with manufacturer specifications and the filtration system O&M manual.  
[PTC No. 039-00001, 5/30/02]
- 4.8 The pressure drop across the LPB-1330 and SPB-1330 particulate-matter filtration systems shall be maintained within the manufacturer and O&M manual specifications.  
[PTC No. 039-00001, 5/30/02]
- 4.9 The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.  
[PTC No. 039-00001, 5/30/02]

**Monitoring and Recordkeeping Requirements**

- 4.10 The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in painting booth LPB-1330 and painting booth SPB-1330 on days of application. Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.  
[PTC No. 039-00001, 5/30/02]
- 4.11 The permittee shall develop a list of all coatings and solvents that are used in LPB-1330 and SPB-1330. The list shall constitute the materials that may be applied in the booths. The list shall include, but is not limited to, the following information: the name and identification number of each substance, its density in pounds per gallon (lb/gal), its VOC content in percent by weight (wt%), and its content in percent by weight of any toxic air pollutant regulated under IDAPA 58.01.01.585 and 586.

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

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To verify information contained in the list, the permittee shall maintain all manufacturer/supplier specifications and material safety data sheets (MSDS) for each product. The list of materials shall remain onsite at all times and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]

- 4.12 The permittee shall maintain records of all inspections and maintenance performed on the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The records shall include, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]

- 4.13 The permittee shall record the days of application for all materials used in the booths that contain quantifiable amounts of HDI. The records shall contain, but are not limited to, the following information: the name and identification number of each HDI-containing product used, its content of HDI in percent by weight (wt%), the density of each HDI-containing product in pounds per gallon (lb/gal), throughput calculations for materials containing more than 1% by weight HDI, and the amount used in gallons of each product. A compilation of the most recent five years of records shall be kept onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001 (state-only), 5/30/02]

- 4.14 The permittee shall have developed an O&M manual for the LPB-1330 particulate-matter filtration system and VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The manual shall describe the procedures that will be followed to comply with the manufacturer specifications for the air pollution control devices. This manual shall remain onsite at all times and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]

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**5. EMISSIONS UNIT GROUP 4: FLIGHT LINE AREA SPRAY PAINTING****Summary Description**

The following is a narrative description of the flight line spray painting operations regulated in this Tier I operating permit. This description is for informational purposes only.

Mountain Home Air Force Base occasionally requires that open-air spray painting operations be conducted in the flight line area. This area includes, but is not limited to, aircraft ramps, aprons, open hangers, and static display aircraft. The coatings are applied using HVLP spray equipment.

Table 5.1 lists the device(s) used to control flight line area spray painting emissions.

**Table 5.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

<b>Emissions Unit</b>	<b>Emissions Control Device</b>
Spray painting	HVLP spray guns

Table 5.2 contains a summary of the requirements that apply to the flight line area spray painting operations. Specific permit requirements are listed below Table 5.2.

**Table 5.2 APPLICABLE REQUIREMENTS SUMMARY**

<b>Permit Conditions</b>	<b>Parameter</b>	<b>Permit Limit</b>	<b>Applicable Requirements Reference</b>	<b>Monitoring and Recordkeeping Requirements</b>
5.1	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	1.11
5.2	VOC	1.5 T/yr	PTC No. 039-00001	5.3 – 5.5

**Emission Limits**

- 5.1 Visible emissions from open-air spray painting operations, or any other point of emissions associated with the flight line area spray painting operations, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625.04.a and IDAPA 58.01.01.625.04.b.
- [IDAPA 58.01.01.625, 4/23/99]
- 5.2 The VOC emissions from open-air spray painting operations in the flight line area, which includes, but is not limited to, aircraft ramps, aprons, open hangers, and static display aircraft on the air force base, shall not exceed 1.5 tons per year (T/yr).
- [PTC No. 039-00001, 5/30/02]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

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***Operating Requirements***

- 5.3 The maximum throughput of all coatings and solvents applied in open-air spray painting operations in the flight line area shall not exceed 16.1 gal/day, nor shall it exceed 300 gallons per any consecutive 12-month period.

[PTC No. 039-00001, 5/30/02]

- 5.4 The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk paint applications.

[PTC No. 039-00001, 5/30/02]

***Monitoring and Recordkeeping Requirements***

- 5.5 The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents applied in open-air spray painting operations in the flight line area. Throughput shall be recorded in gal/day and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]



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<b>Permittee:</b>	Mountain Home Air Force	<b>Facility ID No.</b> 039-00001	<b>Date Issued:</b>	October 1, 2004
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**6. EMISSIONS UNIT GROUP 5: VEHICLE SPRAY PAINT BOOTH****Summary Description**

The following is a narrative description of the vehicle spray paint booth regulated in this Tier I operating permit. This description is for informational purposes only.

Building 1100 contains a vehicle spray paint booth that is used to paint base vehicles (trucks, buses, etc.) and parts as required.

Table 6.1 lists the control device(s) used vehicle spray paint booth emissions.

**Table 6.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

Emissions Unit	Emissions Control Device
Vehicle spray paint booth	Particulate filters

Table 6.2 contains a summary of the requirements that apply to the vehicle spray paint booth. Specific permit requirements are listed below Table 6.2.

**Table 6.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
6.1	PM	Process weight	IDAPA 58.01.01.701	6.5, 6.6, 6.7, 6.9
6.2	VOC	4 T/yr	PTC No. 039-00001	6.4, 6.8
6.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	6.5, 6.6, 6.7, 6.9

**Emission Limits**

- 6.1 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour:

- a. If PW is less than 9,250 lb/hr,

$$E = 0.045 (PW)^{0.60}$$

- b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10 (PW)^{0.25}$$

[IDAPA 58.01.01.701, 4/5/00]

- 6.2 Volatile organic compound emissions from the vehicle spray paint booth stack shall not exceed 4 T/yr.  
[PTC No. 039-00001, 5/30/02]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

<b>Permittee:</b>	Mountain Home Air Force	<b>Facility ID No.</b> 039-00001	<b>Date Issued:</b>	October 1, 2004
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- 6.3 Visible emissions from the vehicle spray paint booth stack, or any other stack, vent, or functionally equivalent opening associated with the spray paint booth, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625.04.a and IDAPA 58.01.01.625.04.b.

[IDAPA 58.01.01.625, 4/5/00; PTC No. 039-00001, 9/15/99]

**Operating Requirements**

- 6.4 The maximum throughput of all coatings and solvents applied in the spray paint booth shall not exceed 300 gallons per any consecutive 12-month period.  
[PTC 039-00001, 5/30/02]
- 6.5 The pressure drop across the spray paint booth filters shall be maintained within manufacturer specifications.  
[PTC 039-00001, 5/30/02]
- 6.6 The permittee shall conduct inspections of the particulate-matter filtration system on days the paint booth is in operation. The filtration system shall be maintained in accordance with manufacturer specifications.  
[PTC 039-00001, 5/30/02]
- 6.7 The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.  
[PTC 039-00001, 5/30/02]

**Monitoring and Recordkeeping Requirements**

- 6.8 The permittee shall monitor and record the throughput (type and amount) of all coatings and solvents, applied in the paint booth on a daily and annual basis. Throughput shall be recorded in gallons per day (gal/day) and gallons per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.  
[PTC 039-00001, 5/30/02]
- 6.9 The permittee shall maintain records of all inspections and maintenance performed on the particulate-matter filtration system. The records shall include, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). A compilation of the most recent five years of inspection and maintenance records shall be kept onsite and shall be made available to DEQ representatives upon request.  
[PTC 039-00001, 5/30/02]

**AIR QUALITY TIER I OPERATING PERMIT NUMBER: T1-040024**

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<b>Location:</b>	Mountain Home, ID		<b>Date Expires</b>	October 29, 2006

**7. EMISSIONS UNIT GROUP 6: BEAD-BLASTING UNIT - BUILDING 1330****Summary Description**

The following is a narrative description of the bead-blasting unit regulated in this Tier I operating permit. This description is for informational purposes only.

A plastic media bead-blast unit installed in Building 1330 is used to strip paint from small components such as fuel tanks and bomb racks. The booth vents through a particulate filter rated at 99.9% efficient for removing particles 1 micron or greater and 100% efficient for particles 2 microns or greater.

Table 7.1 lists the device(s) used Building 1330 bead-blasting emissions.

**Table 7.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

Emissions Unit	Emissions Control Device
Bead-blast booth	Dust collector

Table 7.2 contains a summary of the requirements that apply to the bead blast unit. Specific permit requirements are listed below Table 7.2.

**Table 7.2 APPLICABLE REQUIREMENTS SUMMARY**

Permit Conditions	Parameter	Permit Limit	Applicable Requirements Reference	Monitoring and Recordkeeping Requirements
7.2	PM	Process weight	IDAPA 58.01.01.701	7.6
7.1	Cr <sup>+6</sup>	0.137 lb/yr	PTC No. 039-00001	7.4, 7.5, 7.6, 7.7, 7.8
7.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625, PTC No. 039-00001	7.6

**Emission Limits**

- 7.1 Hexavalent chromium emissions reported as Cr<sup>+6</sup> from the bead blast unit vent shall not exceed 0.137 pounds in any consecutive 12-month period.
- [PTC No. 039-00001 (state-only), 5/30/02]
- 7.2 No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour,
- a. If PW is less than 9,250 lb/hr,

$$E=0.045(PW)^{0.6}$$

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- b. If PW is equal to or greater than 9,250 lb/hr,

$$E=1.10(PW)^{0.25}$$

[IDAPA 58.01.01.701, 4/5/00]

- 7.3 Visible emissions from the bead-blast unit vent, or any other stack, vent, or functionally equivalent opening associated with the bead-blast unit, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period. Opacity shall be determined in accordance with the procedures contained in IDAPA 58.01.01.625.

[IDAPA 58.01.01.625, 4/5/00]

**Operating Requirements**

- 7.4 The permittee shall not operate the bead-blast unit for more than 4,500 hours per any consecutive 12-month period.

[PTC No. 039-00001, 5/30/02]

- 7.5 The annual average weight percent of Cr<sup>+6</sup> shall not exceed 1.075% of the PM controlled by the dust collector assembly per any consecutive 12-month period.

[PTC No. 039-00001 (state-only), 5/30/02]

- 7.6 The permittee shall operate and maintain the dust collector assembly in accordance with manufacturer specifications.

[PTC No. 039-00001, 5/30/02]

**Monitoring and Recordkeeping Requirements**

- 7.7 The permittee shall monitor and record the beat-blast unit hours of operation on a monthly and annual basis. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001, 5/30/02]

- 7.8 The permittee shall monitor and record the Cr<sup>+6</sup> weight percent of the PM collected by the dust collector assembly. The material shall be sampled and analyzed prior to disposal. A compilation of the most recent five years of records shall be maintained onsite and shall be made available to DEQ representatives upon request.

[PTC No. 039-00001 (state-only), 5/30/02]

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**8. EMISSIONS UNIT GROUP 7: MISCELLANEOUS SOURCES*****Summary Description***

The following is a narrative description of the miscellaneous sources regulated in this Tier I operating permit. This description is for informational purposes only.

Several air pollution sources exist at MHAFB, which are exempt from obtaining a PTC in accordance with IDAPA 58.01.01.220-223. The source is exempt from obtaining a PTC only if operated in accordance with the information on which the exemption was based. The miscellaneous sources consist of, but are not limited to, turbine aerospace ground equipment (turbine AGE), PB-198 (B-1 hanger), fire training pit, ordinance disposal, and all fixed internal combustion generators and pumps. The generators and pumps range in size from 5 to 1609 horsepower.

Table 8.1 lists the control device(s) used to control emissions.

**Table 8.1 EMISSIONS UNITS AND EMISSIONS CONTROL DEVICES**

<b>Emissions Units</b>	<b>Emissions Control Device</b>
PB-198	Particulate and HEPA filter, VOC carbon absorption

Generally, applicable requirements for all sources previously determined to be exempt from PTC requirements are contained in the facility-wide permit conditions.

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**9. INSIGNIFICANT ACTIVITIES**

Activities and emissions units identified as insignificant under IDAPA 58.01.01.317.01(b) are listed in the Tier I operating permit to qualify for a permit shield.

**Table 9.1 INSIGNIFICANT ACTIVITIES**

<b>Description</b>	<b>Insignificant Activities IDAPA 58.01.01.317.01(b)(i) Citation</b>
<u><b>Aboveground Storage Tanks</b></u>	
Base wide – storage tanks of 260 gallons or less	IDAPA 58.01.01.317.01(b)(i)(1)
Base wide – storage tanks of 10,000 gallons or less	IDAPA 58.01.01.317.01(b)(i)(3)
<u><b>Underground Storage Tanks</b></u>	
Base wide – storage tanks of 10,000 gallons or less	IDAPA 58.01.01.317.01(b)(i)(3)
<u><b>External Combustion Sources</b></u>	
Base wide – additional external combustion sources less than 5 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(5)
Base wide – external combustion sources less than 0.5 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(6)
Base wide – external combustion sources less than 1 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(7)
<u><b>VOC Emissions</b></u>	
Base wide – VOC sources that meet the conditions of IDAPA 58.01.01.317.01(b)(i)(30)	IDAPA 58.01.01.317.01(b)(i)(30)
<u><b>Portable Generators</b></u>	
Base wide – additional portable generators that meet the conditions of IDAPA 58.01.01.317.01(b)(i)(19)	IDAPA 58.01.01.317.01(b)(i)(19)

There are no monitoring, recordkeeping, or reporting requirements for insignificant emissions units or activities beyond those required in the facility-wide permit conditions, other than the following:

The information monitored and recorded in accordance with this permit, and the method(s) used by the permittee to estimate emissions in accordance with IDAPA 58.01.01.527 shall be provided to DEQ as required by IDAPA 58.01.01.527.04.

[IDAPA 58.01.01.527, 5/1/94]

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**10. TIER I OPERATING PERMIT GENERAL PROVISIONS*****General Compliance***

1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action, for permit termination, revocation and reissuance, revision; or for denial of a permit renewal application.  
[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(I)]
2. It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.  
[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(II)]
3. Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.  
[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

***Reopening***

4. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.  
[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1) and (2); 40 CFR 70.6(a)(6)(III)]
5. The filing of a request by the permittee for a permit revision, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.  
[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(III)]

***Property Rights***

6. This permit does not convey any property rights of any sort, or any exclusive privilege.  
[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(IV)]

***Information Requests***

7. The permittee shall furnish all information, within a reasonable time, that DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.  
[Idaho Code §39-108; IDAPA 58.01.01.122, 5/1/94; IDAPA 58.01.01.322.15.f, 4/5/00; 40 CFR 70.6(a)(6)(v)]

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8. Upon request, the permittee shall furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.  
[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

***Severability***

9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.  
[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

***Changes Requiring Permit Revision or Notice***

10. The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.  
[IDAPA 58.01.01.200-223, 4/5/00; IDAPA 58.01.01.322.15.i, 380-386, 3/19/99; 40 CFR 70.4(b)(12), (14) and (15), and 70.7(d) and (e)]
11. Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.  
[IDAPA 58.01.01.381-385, 3/19/99; IDAPA 58.01.01.209.05, 5/1/94; 40 CFR 70.4(b)(14) and (15)]

***Federal and State Enforceability***

12. Unless specifically identified as a "state-only" provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source's potential to emit, are enforceable: (i) by DEQ in accordance with state law; and (ii) by the United States or any other person in accordance with federal law.  
[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1) and (2)]
13. Provisions specifically identified as a "state-only" provision are enforceable only in accordance with state law. "State-only" provisions are those that are not required under the CAA or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.  
[Idaho Code §39-108; IDAPA 58.01.01.322.15.k, 3/23/98]

***Inspection and Entry***

14. Upon presentation of credentials, the permittee shall allow DEQ, or an authorized representative of DEQ, to do the following:



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- a. Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.l, 3/19/99; 40 CFR 70.6(c)(2)]

***New Requirements During Permit Term***

15. The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.10.a.ii, 5/1/94;  
40 CFR 70.6(c)(3) citing 70.5(c)(8)]

***Fees***

16. The owner or operator of a Tier I source shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.525 through IDAPA 58.01.01.538.

[IDAPA 58.01.01.322.15.n, 5/1/94; 40 CFR 70.6(a)(7)]

***Certification***

17. All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

***Renewal***

18. a. The owner or operator of a Tier I source shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

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- b. If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

**Permit Shield**

19. Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
  - i. DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
- b. The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
- c. Nothing in this permit shall alter or affect the following:
  - i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers.
  - ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.
  - iii. The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a).
  - iv. The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 322.15.m, 325, 5/1/94  
IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]

**Compliance Schedule and Progress Reports**

20.
  - a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
  - b. For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.

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- c. For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
- d. For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 10, 5/1/94;  
40 CFR 70.6(c)(3) and (4)]

***Periodic Compliance Certification***

21. The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as follows:

- a. Compliance certifications for all emissions units shall be submitted annually, or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by DEQ. The annual compliance reporting period shall be from November 1 to October 31.
- b. The compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices.
- c. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):
  - i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification.
  - ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this Tier I operating permit. If necessary, the owner or operator shall identify any other material information that must be included in the certification to comply with Permit Condition 113(c)(2) of the CAA which prohibits knowingly making a false certification or omitting material information;
  - iii. The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Paragraph 21.c.ii above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred;
  - iv. Such other facts as DEQ may require to determine the compliance status of the source.

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- d. All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

[IDAPA 58.01.01.322.11, 5/1/94; 40 CFR 70.6(c)(5)(III) as amended, 62 Fed. Reg. 54900, 54946, 10/22/97; 40 CFR 70.6(c)(5)(IV)]

**False Statements**

22. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

**No Tampering**

23. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

**Semiannual Monitoring Reports**

24. In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring. Reporting periods shall be November 1 to April 30, and May 1 to October 31. All instances of deviations from this operating permit's requirements must be clearly identified in the report. All required reports must be certified in accordance with IDAPA 58.01.01.123.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(III)]

**Reporting Deviations and Excess Emissions**

25. The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/5/00; 40 CFR 70.6(a)(3)(III)]

**Permit Revision Not Required**

26. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

**Emergency**

27. In accordance with IDAPA 58.01.01.332, an "emergency" as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 3/19/99; 40 CFR 70.6(g)]

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***National Security Emergency***

- 28 Since MHAFB is a military combat facility, at any time, MHAFB may be ordered to increase its level of readiness related to a national security emergency. Such an emergency may cause a surge condition at MHAFB that could result in emissions greater than specified in this permit and/or make it impractical to meet one or more of the permit terms. In the event that the Responsible Official determines that a surge condition exists, the Idaho State Air Quality Program Administrator shall be notified within five business days after cessation of a surge condition occurring and within five business days after cessation of such a condition. Within 45 days after cessation of a surge condition, the Responsible Official shall submit a report to the Idaho State Air Quality Program Administrator detailing the permit conditions (if any) could not be met during the surge condition.

[IDAPA 58.01.01.130-136, 4/5/00; IDAPA 58.01.01.322.08, 5/1/94]